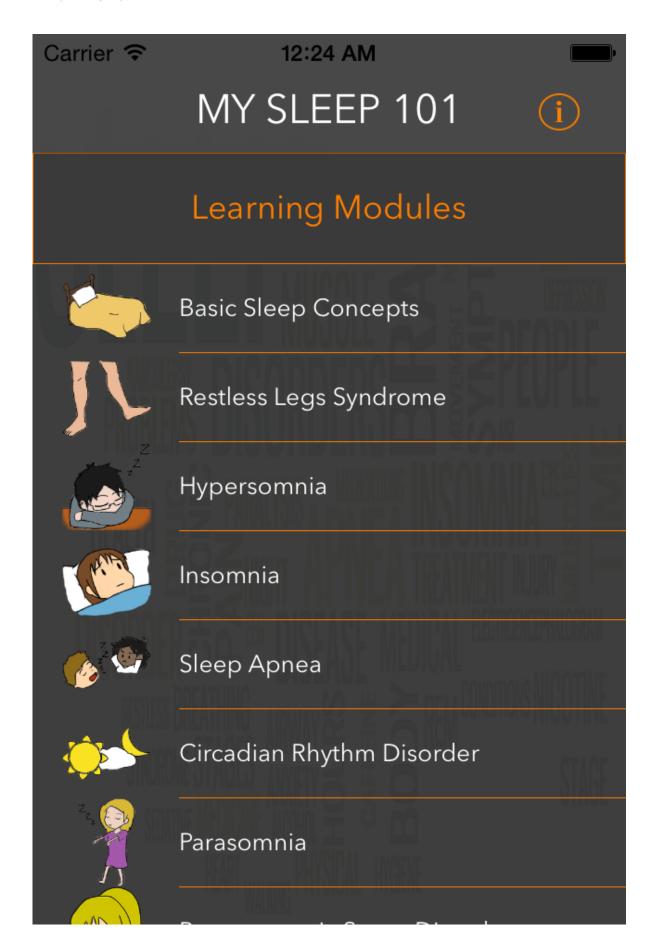


Mobile app helps physicians identify common sleep disorders in patients

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My Sleep 101 provides basic information about the seven most common disorders associated with poor sleep quality: restless legs syndrome, hypersomnia, insomnia, sleep apnea, circadian rhythm disorder, parasomnia and post-traumatic stress disorder. Credit: Johns Hopkins Medicine

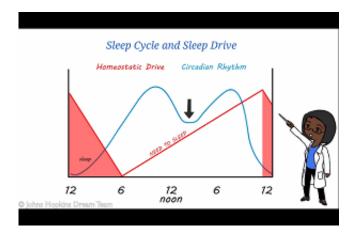
Each year, more than 60 million Americans fail to get enough sleep at night due to a chronic sleep disorder. Yet few of these patients will be diagnosed and receive the care they need, even if they're already seeing other doctors, such as a primary care physician.

Experts from the Johns Hopkins Center for Sleep hope to help <u>patients</u> get a better night's sleep by providing health care staff members with a basic educational tool on their smartphones.

Called MySleep101, the mobile learning application offers providers who are not experts in sleep disorders information on how to screen and counsel patients experiencing sleepless nights. Doctors, nurses and other care providers can access basic information about the seven most common disorders associated with poor sleep quality: restless legs syndrome, hypersomnia, insomnia, sleep apnea, circadian rhythm disorders, parasomnia and post-traumatic stress disorder.

Neurologists and board-certified sleep physicians Charlene Gamaldo, M.D., and Rachel Salas, M.D., developed the app with an interdisciplinary team that included experts in graphic design, animation, software development and behavioral sleep medicine. The goal of the app is to provide critically relevant information in an easily accessible format that appeals to providers who are more likely to use their cellphones and tablets as medical tools.





he lectures, which use the real voices of neurologists and board-certified sleep physicians Charlene Gamaldo, M.D., and Rachel Salas, M.D., are delivered by animated avatars of the two doctors. Credit: Johns Hopkins Medicine

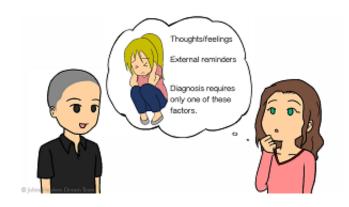
"Not everyone has the time or interest to get certified in sleep medicine," says Gamaldo, the medical director of the Johns Hopkins Center for Sleep. "Nonetheless, this app can serve as a novel tool that allows all providers to supply important sleep information to patients in a way that is conducive to their work and learning preferences."

The educational tool consists of short video clips that educate health care providers and consumers on the basic concepts of sleep and findings from recent scientific research. The lectures, which use the real voices of Gamaldo and Salas, are delivered by avatars of the two doctors. Animated characters communicate essential clinical features, symptoms and risk factors associated with specific sleep disorders, plus treatment and management strategies physicians can recommend to patients. However, the experts caution, the app is an educational—not diagnostic—tool, and physicians should refer patients with suspected sleep disorder cases to board-certified sleep specialists.



Affecting more than 80 million Americans each year, poor sleep quality has been associated with increased risks of stroke, dementia, headaches and several cardiovascular issues, including atrial fibrillation, heart failure and pulmonary hypertension. Short-term effects include reduced memory function, trouble with concentration, mood swings, decreased productivity, and reduced sexual drive and performance. Microsleep, a temporary episode of sleep that may last for a second or two, is also a concern.

"If you're hungry or thirsty, your body emits signals to alert you to the problem, though it cannot make you eat," says Salas. "But if you are tired, your body can force you to sleep, no matter what you are doing. This can present a huge problem for individuals who are behind the wheel of a motor vehicle or who are involved in delicate procedures."



Animated characters communicate essential clinical features, symptoms and risk factors associated with specific sleep disorders, plus treatment and management strategies physicians can recommend to patients. Credit: Johns Hopkins Medicine

Recommended sleep practices described in the mobile app can improve patients' health outcomes. Such interventions include putting a standard



sleep schedule into practice and turning off electronic devices in the hours prior to bed, in an effort to decrease melatonin triggers due to light emanating from technology screens.

In addition to improving the sleep and overall health of patients, Gamaldo and Salas hope the application will be a tool used by their peers to improve their own sleep habits. Studies suggest that care providers who regularly follow healthy lifestyle practices, such as getting the recommended amount of sleep, are more likely to solicit and counsel their patients on these behaviors.

"We need to make sleep a priority for our patients and ourselves," says Salas. "Our goal is to educate our colleagues that sleep is important and that it impacts our patients' quality of life and morbidities."

More information: The mobile application is offered in the App Store for iOS devices: <u>itunes.apple.com/app/id963623959</u>

Provided by Johns Hopkins University

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